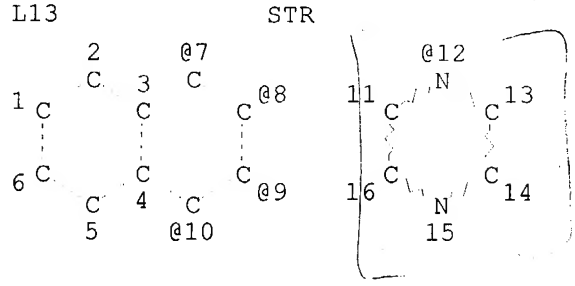
BERCIT
522349

=> d l19 que stat

L13 STR

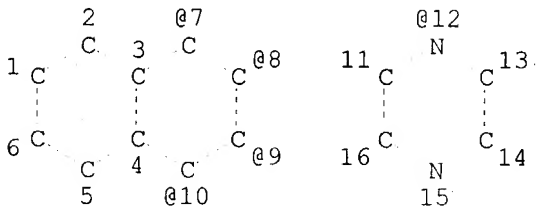


R1

VPA 12-7/8/9/10 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE
L14 STR

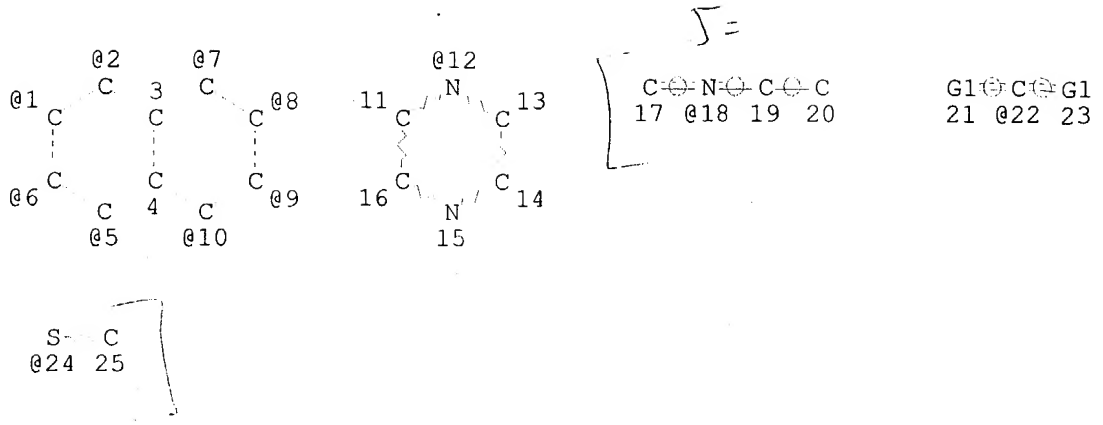


Desperately needs work!

VPA 12-7/8/9/10 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE
L16 1197 SEA FILE=REGISTRY SSS FUL L13 NOT L14
L17 STR



G2 @26

VAR G1=C/N
VAR G2=18/22/24/X/SH
VPA 12-7/8/9/10 U
VPA 26-2/1/6/5 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE
L18 43 SEA FILE=REGISTRY SUB=L16 SSS FUL L17
L19 1154 SEA FILE=REGISTRY ABB=ON PLU=ON L16 NOT L18

=> fil medline,caplus,biosis,embase;s l19

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	257.39	479.25

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-16.32	-16.32

FILE 'MEDLINE' ENTERED AT 17:04:56 ON 03 MAR 1999

FILE 'CAPLUS' ENTERED AT 17:04:56 ON 03 MAR 1999

FILE 'BIOSIS' ENTERED AT 17:04:56 ON 03 MAR 1999
COPYRIGHT (C) 1999 BIOSIS(R)

FILE 'EMBASE' ENTERED AT 17:04:56 ON 03 MAR 1999

L20 27 FILE MEDLINE
L21 345 FILE CAPLUS
L22 59 FILE BIOSIS
L23 100 FILE EMBASE

TOTAL FOR ALL FILES
L24 531 L19

=> dupr em l24

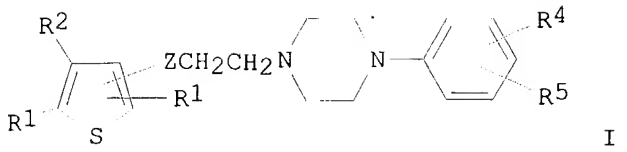
DUPR IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> dup rem l24

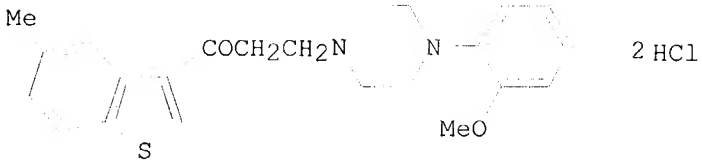
PROCESSING COMPLETED FOR L24
L25 424 DUP REM L24 (107 DUPLICATES REMOVED)

=> d cbib abs hitstr few examples

L25 ANSWER 1 OF 424 CAPLUS COPYRIGHT 1999 ACS
1999:64792 Document No. 130:125096 Arylpiperazinylalkylthiophenes as antidepressants and anxiolytics. Monge Vega, Antonio; Del Rio Zambrana, Joaquin; Lasheras Aldaz, Berta; Palop Cubillo, Juan Antonio; Bosch Rovira, Anna; Del Castillo Nieto, Juan Carlos; Roca Acin, Juan (Vita-Invest, S.A., Spain). PCT Int. Appl. WO 9902516 A1 19990121, 71 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (Spanish). CODEN: PIXXD2. APPLICATION: WO 98-ES191 19980701. PRIORITY: ES 97-9701517 19970708.
GI



I



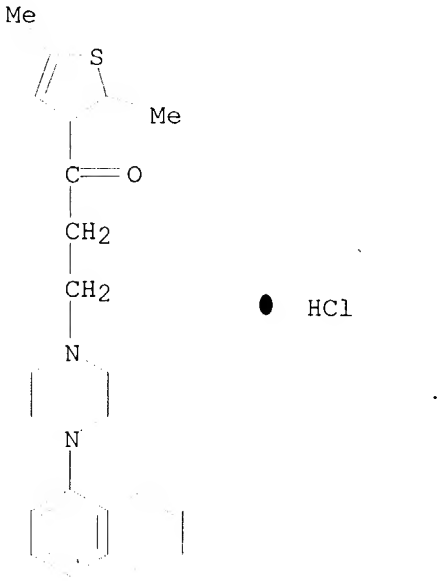
II

AB Title compds. I [Z = CO, CH(OR66), C(:OR7); R1 = H, alkyl, halogen, OR12; R2, R3 = H, alkyl, halogen, nitro, OR12;R2R3 = CR8:CR9CR10:CR11; R4, R5 = H, alkyl, halogen, haloalkyl, OR12, nitro, NR13R14; CO2R12; SO2NR13R14; SO2R12; SR12, cyano; CONR13R14; R4R5 form a benzene ring; R6 = H, alkyl, CO2R12, CONR13R14, naphthyl, phenyl; R7 = H, alkyl; R8, R9, R10, R11 = H, alkyl, halogen, OR12, nitro, cyano, NR13R14, COR12, CO2R12, SO2NR13R14, SO2R12, SR12, CONR13R14; R12 = H, alkyl, or phenyl; R13, R14 = H, alkyl, phenyl;NR13R14 = 5- or 6-membered heteorcycle] were prepd. These compds. are efficient for the treatment of anxiety or depression. Thus, 5-methylbenzothiophene was converted to the 3-acetyl deriv. and treated with 2-methoxyphenylpiperazine-HCl to give the benzothiophene II. II had IC50 for binding to the 5HT1A receptor of 1.4X10-7 and to the 5HT transporter of 6.5X10-7 M.

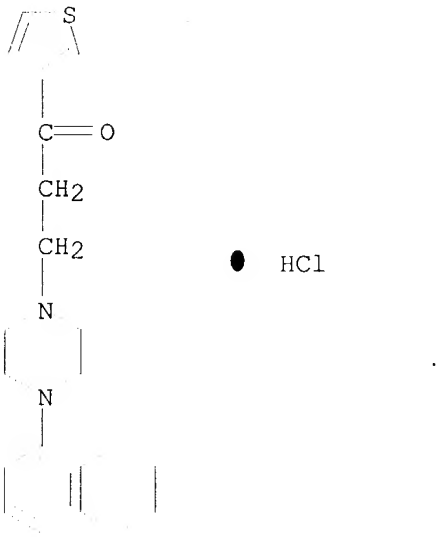
IT **219906-73-7P 219906-94-2P**
RL: BAC (Biological activity or effector, except adverse); RCT (Reactant);
SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of arylpiperazinylalkylthiophenes as antidepressants and anxiolytics)

RN 219906-73-7 CAPLUS

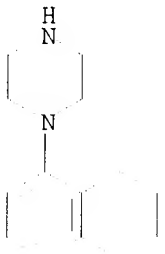
CN INDEX NAME NOT YET ASSIGNED



RN 219906-94-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



IT **104113-71-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of arylpiperazinylalkylthiophenes as antidepressants and anxiolytics)
RN 104113-71-5 CAPLUS
CN Piperazine, 1-(1-naphthalenyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

=> d 100 200 300 400 424 cbib abs hitstr

L25 ANSWER 100 OF 424 CAPLUS COPYRIGHT 1999 ACS
1996:569544 Document No. 125:221584 Preparation of chromene derivatives as photochromic substances. Matsuoka, Shingo; Momota, Junji; Hara, Tadashi (Tokuyama Corp, Japan). Jpn. Kokai Tokkyo Koho JP 08176139 A2 19960709 Heisei, 29 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 94-316159 19941220.
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

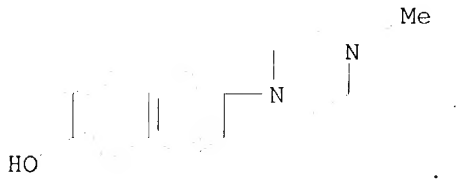
AB The title compds., 3-(2-naphthyl)-3-phenyl-3H-naphtho[2,1-c]pyran derivs. [I; R1 - R5 = H, alkyl, alkoxy, aralkyl, acyl, cyano, substituted NH2, aryl, acyloxy, NO2, HO, halo, (R6-O)5(R7)tR8; wherein R6 = alkylene, A-B-A1; A, A1 = alkylene; B = CO, CO2, O2C, arylene; R7 = alkylene; R8 = alkyl, cycloalkyl, aralkyl, aryl, heterocyclyl; s = 0-4; t = 0,1; provided that when s = 0, R8 = heterocyclyl; n, a, b, c = 1,2; provided that at least one of R1 - R5 = (R6-O)5(R7)tR8], which show high absorbency and excellent photochromicity, are prepd. These compds. turn colored when irradiated with sun light or mercury-lamp light contg. UV ray and reversely become colorless at fast discoloration rate when left to stand in dark, and are useful as materials for photochromic lenses. Thus, 1.44 g 2-naphthol and 3.02 g propargyl alc. deriv. (II) were dissolved in PhMe, treated with 0.05 g p-MeC6H4SO3H, and refluxed for 2 h to give, the title benzochromene compd. (III). III 0.05, tetraethylene glycol dimethacrylate 70, triethylene dimethacrylate 15, glycidyl methacrylate 10, and 2-hydroxyethyl methacrylate 5 part were throughly mixed, poured into a glass mold, polymd. with gradually raising the temp. from 30.degree. to 90.degree. over 18 h and at 90.degree. for 2 h, removed from the mold to give a molded polymer (thickness 2 mm). This was exposed for 120 s with a xenon lamp through a filter and showed coloration at .lambda.max. 450 nm with color concn. twice greater than that of 3,3-diphenyl-3H-naphtho[2,1-c]pyran and discoloration rate at t1/2 of 61 s [defined as time required

for the absorbency difference (.DELTA..epsilon.) before and after 120 s exposure to become 1/2 when left in dark] which was faster than that of 8-methoxy-3,3-diphenyl-3H-naphtho[2,1-c]pyran.

IT **181236-03-3**
RL: RCT (Reactant)
(prepn. of naphthylphenylbenzochromene derivs. as photochromic substances)

RN 181236-03-3 CAPLUS

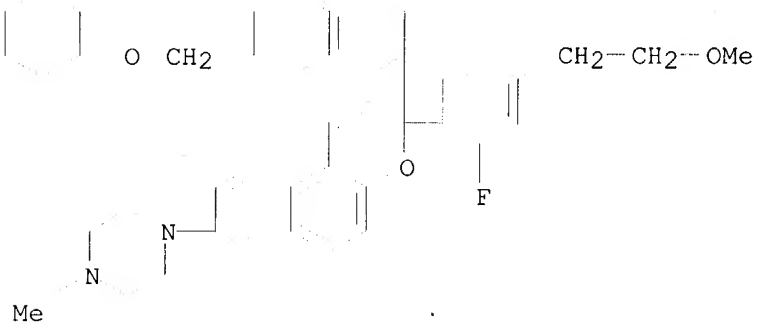
CN 2-Naphthalenol, 6-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



IT **181235-57-4P**
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(prepn. of naphthylphenylbenzochromene derivs. as photochromic substances)

RN 181235-57-4 CAPLUS

CN Piperazine,
1-[3-[7-[(cyclohexyloxy)methyl]-2-naphthalenyl]-3-[2-fluoro-4-(2-methoxyethyl)phenyl]-3H-naphtho[2,1-b]pyran-8-yl]-4-methyl- (9CI) (CA INDEX NAME)



L25 ANSWER 200 OF 424 CAPLUS COPYRIGHT 1999 ACS

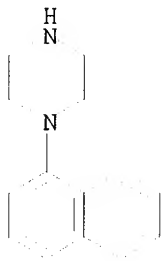
1994:1074 Document No. 120:1074 Cloning of a novel human serotonin receptor (5-HT7) positively linked to adenylate cyclase. Bard, Jonathan A.; Zgombick, John; Adham, Nika; Vaysse, Pierre; Branchek, Theresa A.; Weinshank, Richard L. (Synaptic Pharm. Corp., Paramus, NJ, 07652, USA). J. Biol. Chem., 268(31), 23422-6 (English) 1993. CODEN: JBCHA3. ISSN: 0021-9258.

AB An intron-contg. gene encoding a novel human serotonin (5-HT) receptor was isolated from human genomic and cDNA libraries with probes directed to transmembrane regions of the adenylate cyclase stimulatory Drosophila serotonin receptor gene, 5-HTdro1. Membranes harvested from transiently transfected Cos-7 cells displayed high affinity (Kd = 8.5 nM), saturable (Bmax = 6.6 pmol/mg protein) [3H]5-HT binding. The rank order of potencies for serotonergic ligands to displace specific [3H]5-HT binding

was: 5-carboxamidotryptamine > methiothepin > metergoline > 5-HT > 8-hydroxy-2-(di-n-propylamino)tetralin > sumatriptan > ketanserin > zacopride. 5HT produced a dose-dependent (EC = 992 nM) stimulation (20-fold) of cAMP accumulation in transiently transfected cells, and this response was antagonized by the nonselective 5-HT antagonist methiothepin.

RNA for this gene was predominantly detected in the human brain and a subset of peripheral tissues including coronary artery and several tissues of the gastrointestinal tract. The mol. biol. and pharmacol. properties of this receptor suggest that it is the first member of a new serotonin receptor subfamily (5-HT7). The second messenger coupling, and tissue distribution indicate a possible identity to 5-HT receptors that mediate relaxant responses in certain isolated blood vessels.

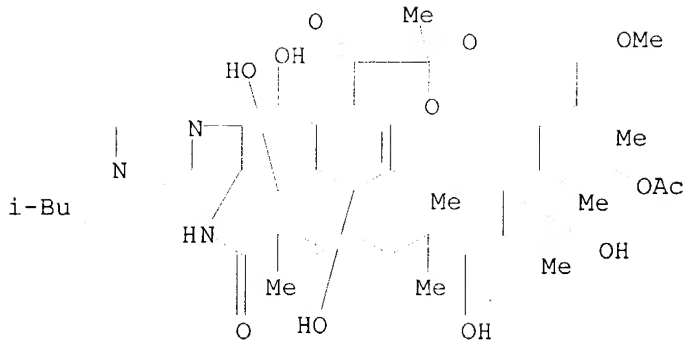
IT **57536-86-4**
RL: BIOL (Biological study)
(5-HT7 receptor of human binding by)
RN 57536-86-4 CAPLUS
CN Piperazine, 1-(1-naphthalenyl)- (9CI) (CA INDEX NAME)



L25 ANSWER 300 OF 424 CAPLUS COPYRIGHT 1999 ACS DUPLICATE 47
1990:115628 Document No. 112:115628 Relationship between the alteration of RNA polymerase in Mycobacterium tuberculosis H37Rv and the resistance induced by rifandin. Li, Xianzhi; Zhang, Xinfeng; Jiang, Tianrong; Wang, Yusheng (Dep. Pharmacol., West China Univ. Med. Sci., Chengdu, Peop. Rep. China). Kangshengsu, 14(5), 311-14 (Chinese) 1989. CODEN: KANGDS. ISSN:
0254-6116.

AB Rifandin (RFD, R76-1) is a semisynthetic antituberculous agent. An RFD-resistant stain was induced from M. tuberculosis H37Rv propagated on Lowenstein-Jensen medium with concn. gradients of RFD. The antibacterial activity of RFD on M. tuberculosis and the cross-resistance of RFD with other six antituberculous drugs were tested. The incorporation of [3H]Uridine into the H37Rv strain was significantly inhibited by RFD and RFD failed to inhibit the incorporation in the resistant strain. The RNA polymerase activity of H37Rv strain was strongly inhibited by RFD, but not that of the resistant strain. The results suggested that one of the resistant mechanisms of M. tuberculosis to RFD is related to an alteration of RNA polymerase.

IT **57184-22-2**, Rifandin
RL: BIOL (Biological study)
(Mycobacterium tuberculosis resistance to, RNA polymerase in relation to)
RN 57184-22-2 CAPLUS
CN Rifamycin, 3-[4-(2-methylpropyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



L25 ANSWER 400 OF 424 CAPLUS COPYRIGHT 1999 ACS

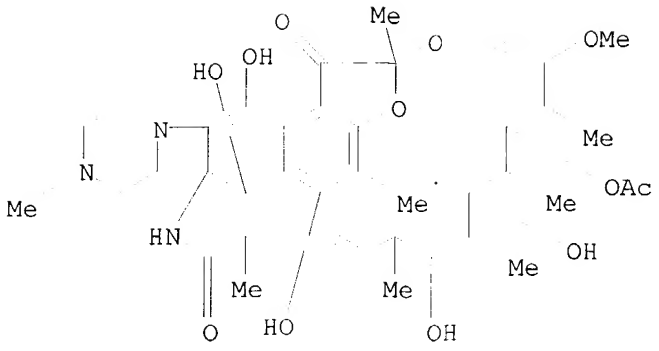
1975:51331 Document No. 82:51331 Inhibition of DNA polymerases of RNA tumor viruses and cells by rifamycin SV derivatives. Green, Maurice; Gurgo, Corrado; Gerard, Gary; Grandgenett, Duane; Shimada, Koichiro (Sch. Med., St. Louis Univ., St. Louis, Mo., USA). Collect. Pap. Annu. Symp. Fundam. Cancer Res., 25, 258-89 (English) 1974. CODEN: SFCRAO.

AB The effect of derivs. of rifamycin SV [6998-60-3] on the RNA-directed [9068-38-6] and DNA-directed DNA polymerase [9012-90-2] activities of seveal RNA tumor viruses and the DNA-directed DNA and RNA polymerase [9014-24-8] activities of mammalian cells was studied. Rifamycin SV derivs. with substituted cyclic amine side chains in position 3 of the ansa ring are strong inhibitors of the RNA- and DNA-directed DNA polymerase activities of RNA tumor viruses of murine, feline, and avian origin. Esp. active were 3-piperidyl derivs. with cyclohexyl and cyclohexylalkyl substituents. Derivs. that were effective against the viral polymerase also blocked cell transformation by murine sarcoma virus-murine leukemia virus complex. A DNA-directed DNA polymerase from human KB cells was less sensitive to inhibition by these derivs. than was viral polymerase. Rifamycin derivs. do not bind to the template or interfere with the binding and polymn. of the 4 deoxyribonucleoside triphosphates. Instead, the drugs bind to the polymerase mol. and interfere with either the initiation of DNA synthesis or the binding of the template but not with chain elongation. Further modifications of the structure of rifamycin and rifamycin-like mols. may provide a promising approach to virus and cancer chemotherapy based on specific interactions with polymerase mols.

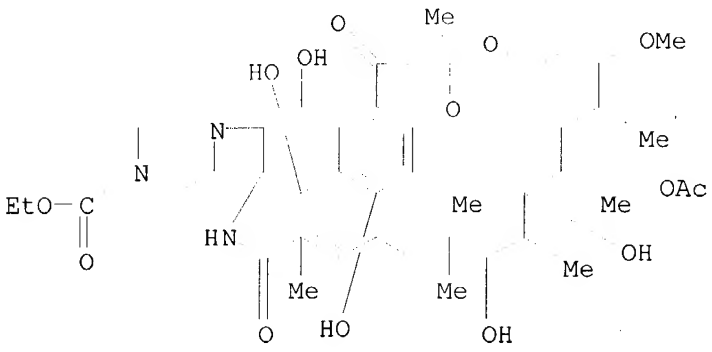
IT **17555-08-7 17555-10-1**
RL: BIOL (Biological study)
(DNA polymerase inhibition by, in RNA tumor virus)

RN 17555-08-7 CAPLUS

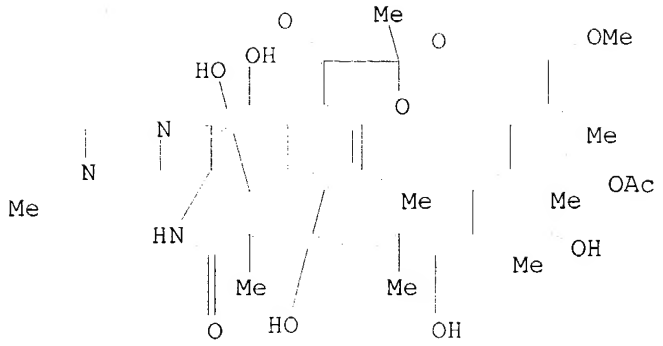
CN Rifamycin, 3-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



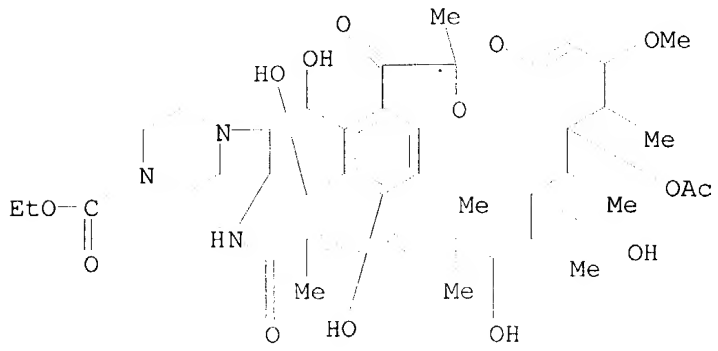
RN 17555-10-1 CAPLUS
CN Rifamycin, 3-[4-(ethoxycarbonyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



L25 ANSWER 424 OF 424 CAPLUS COPYRIGHT 1999 ACS
1968:104800 Document No. 68:104800 New derivatives of rifomycin antibiotics.
Bickel, Hans; Knuesel, Fritz; Kump, Wilhelm; Neipp, Lucien (Pharm. Res. Lab., CIBA Ltd., Basel, Switz.). Antimicrob. Agents Chemother. (1961-70) 352-8 (English) 1966. CODEN: AACHAX.
AB Several chem. derivs. were prepd. by altering the rifomycin S structure in
the aliphatic and in the aromatic parts of the mol. Chem. transformations
in the aliphatic parts did not generally improve the antibacterial activity of the compds.; however, modification in the aromatic nucleus particularly at position 3 generally enhanced the antibiotic potency significantly. Condensation products of rifomycin S with aromatic 1,2-diamines and 1,2-hydroxyamines, and particularly addn. products with aliphatic and aromatic monoamines, showed very promising in vitro properties.
IT **17555-08-7P 17555-10-1P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and biol. activity of)
RN 17555-08-7 CAPLUS
CN Rifamycin, 3-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 17555-10-1 CAPLUS
CN Rifamycin, 3-[4-(ethoxycarbonyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	94.93	574.18

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.21	-19.53

FILE 'REGISTRY' ENTERED AT 17:09:14 ON 03 MAR 1999
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

STRUCTURE FILE UPDATES: 26 FEB 99 HIGHEST RN 220057-69-2
DICTIONARY FILE UPDATES: 2 MAR 99 HIGHEST RN 220094-18-2

TSCA INFORMATION NOW CURRENT THROUGH JUNE 29, 1998

Please note that search-term pricing does apply when conducting SmartSELECT searches.

=> dis his

(FILE 'HOME' ENTERED AT 16:53:11 ON 03 MAR 1999)

```
     FILE 'REGISTRY' ENTERED AT 16:53:19 ON 03 MAR 1999
L1                STR
L2             50 S L1
L3           1168 S L1 FUL
L4                STR L1
L5              0 S L4
L6             42 SEARCH L4  SUB=L3 FUL
L7           1126 S L3 NOT L6

     FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE' ENTERED AT 16:57:17 ON 03 MAR 1999
L8             27 FILE MEDLINE
L9            328 FILE CAPLUS
L10            59 FILE BIOSIS
L11           100 FILE EMBASE
     TOTAL FOR ALL FILES
L12           514 S L7

     FILE 'REGISTRY' ENTERED AT 16:58:51 ON 03 MAR 1999
L13               STR L1
L14               STR L13
L15            22 S L13 NOT L14
L16          1197 S L13 NOT L14 FUL
L17               STR L4
L18            43 SEARCH L17  SUB=L16 FUL
L19          1154 S L16 NOT L18

     FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE' ENTERED AT 17:04:56 ON 03 MAR 1999
L20            27 FILE MEDLINE
L21           345 FILE CAPLUS
L22            59 FILE BIOSIS
L23           100 FILE EMBASE
     TOTAL FOR ALL FILES
L24           531 S L19
L25           424 DUP REM L24 (107 DUPLICATES REMOVED)

     FILE 'REGISTRY' ENTERED AT 17:09:14 ON 03 MAR 1999
L26               STR
L27               STR L26
L28             0 S L26 NOT L27
L29               STR L26
L30            27 S L26 NOT L29
L31            27 S L26
L32               STR L26
L33            17 S L32
L34               STR L32
L35             1 S L34
L36               STR L34
L37             0 S L34 NOT L36
L38             0 S L34 NOT L36
L39             0 S L34 NOT L36
L40               STR L34
L41               STR L36
L42             1 S L34 NOT L41
                  BATCH L42 SSS FUL BERCH522/B
L43               STR L34
L44             0 S L43 NOT L41
L45               STR L43
L46             0 S L45 NOT L41
L47             0 S L46 OR L44
L48             0 S (L43 OR L45) NOT L41
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```
                BATCH SSS L48 FUL BERCH522A/B
L49             STR L43
L50          13 S L49
L51             STR L49
L52          12 S L49 NOT L51
                BATCH SSS L52 FUL BERCH522C/B

=> log y
```

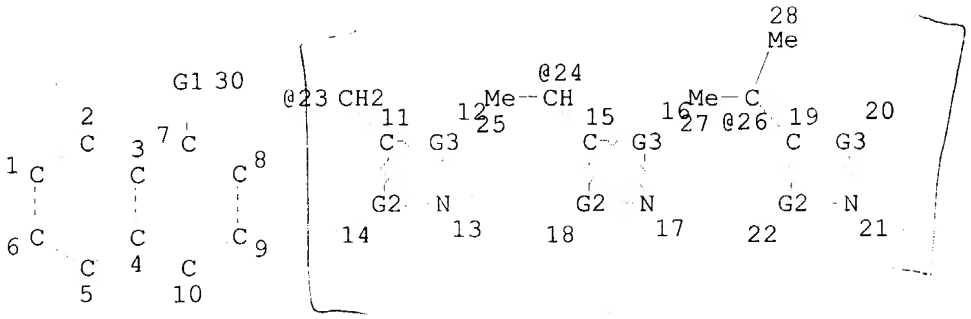
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	11.70	585.88

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-19.53

STN INTERNATIONAL LOGOFF AT 17:27:21 ON 03 MAR 1999

=> d l3 que stat;act berch522a/a

L1 STR

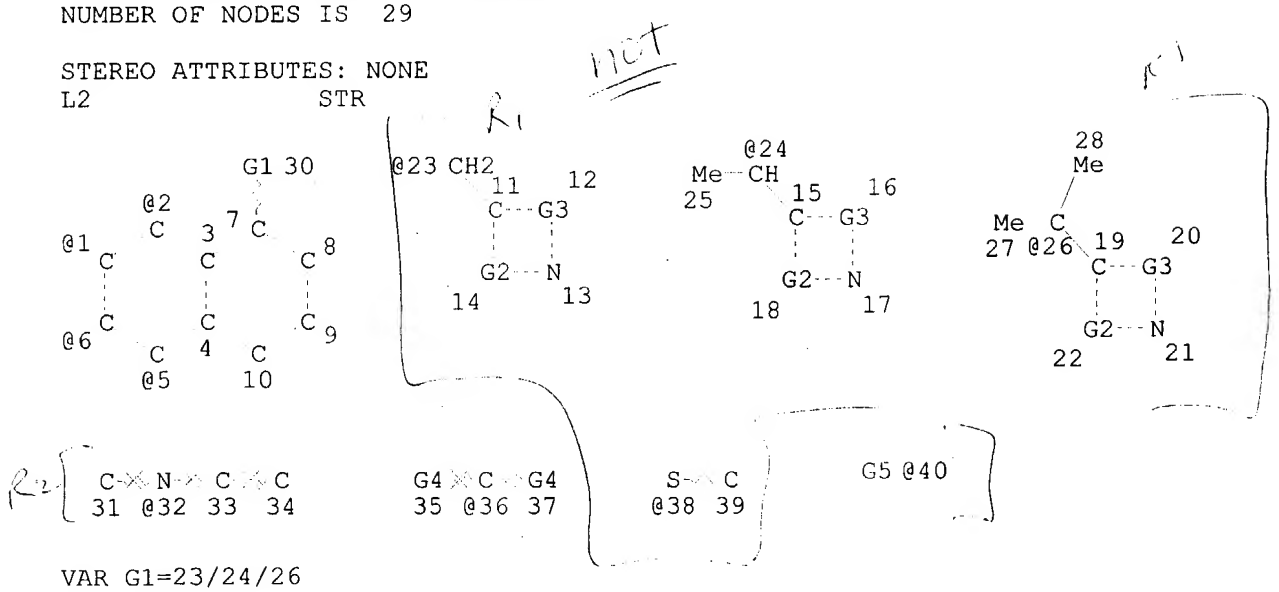


VAR G1=23/24/26
REP G2=(1-4) C
REP G3=(0-4) C
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE

L2 STR



VAR G1=23/24/26
REP G2=(1-4) C
REP G3=(0-4) C
VAR G4=C/N
VAR G5=32/36/38/X/SH
VPA 40-2/1/6/5 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE

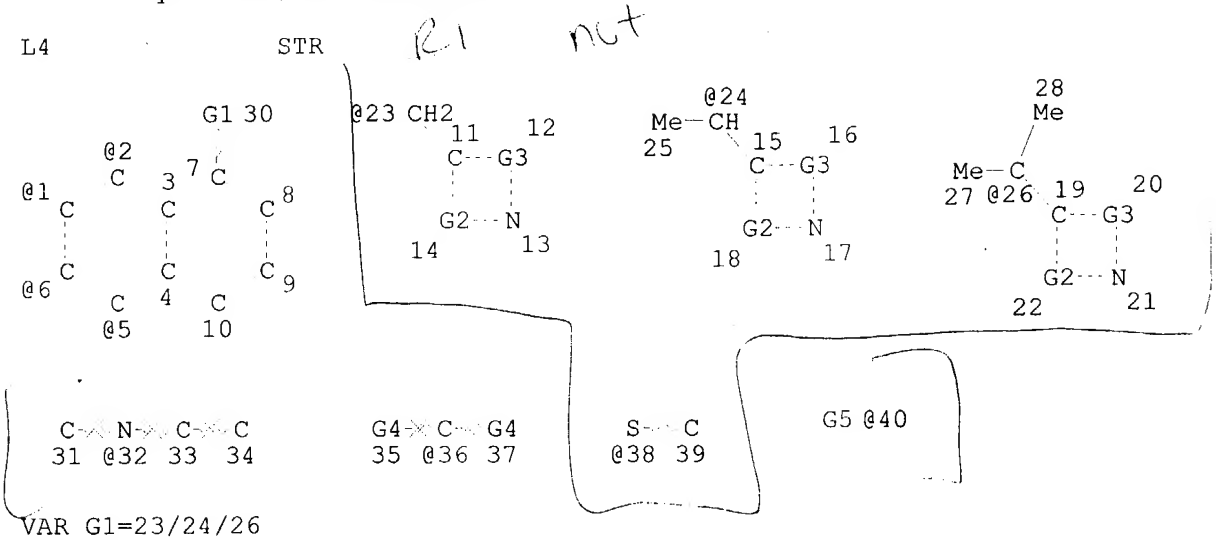
L3 422 SEA FILE=REGISTRY SSS FUL L1 NOT L2

10.3% PROCESSED 478998 ITERATIONS 422 ANSWERS
SEARCH TIME: 00.00.57

L4 STR
L5 STR
L6 STR
L7 215 SEA FILE=REGISTRY SSS FUL (L5 OR L6) NOT L4

=> d l7 que stat;act berch522c/a

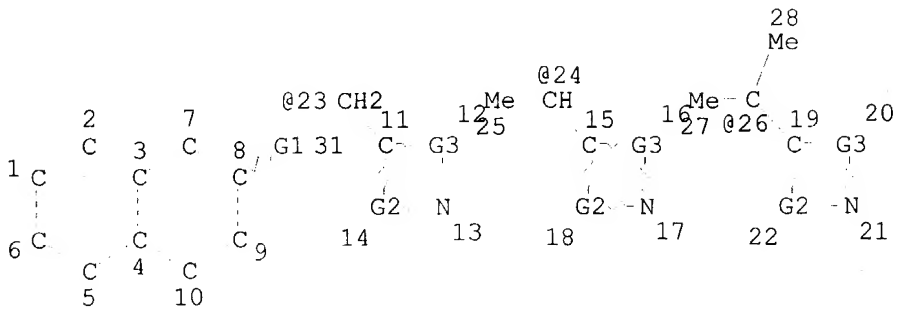
L4 STR



VAR G1=23/24/26
REP G2=(1-4) C
REP G3=(0-4) C
VAR G4=C/N
VAR G5=32/36/38/X/SH
VPA 40-2/1/6/5 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE
L5 STR

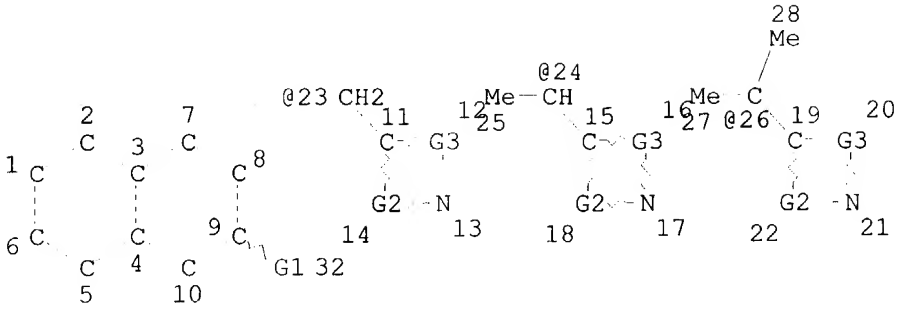


VAR G1=23/24/26
REP G2=(1-4) C

REP G3=(0-4) C
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE
L6 STR



VAR G1=23/24/26
REP G2=(1-4) C
REP G3=(0-4) C
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 29

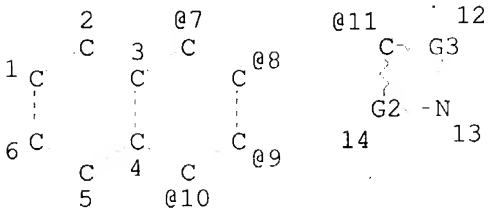
STEREO ATTRIBUTES: NONE
L7 215 SEA FILE=REGISTRY SSS FUL (L5 OR L6) NOT L4

10.3% PROCESSED 478998 ITERATIONS 215 ANSWERS
SEARCH TIME: 00.01.27

L8 STR
L9 STR
L10 5118 SEA FILE=REGISTRY SSS FUL L8 NOT L9

=> d l10 que stat

L8 STR

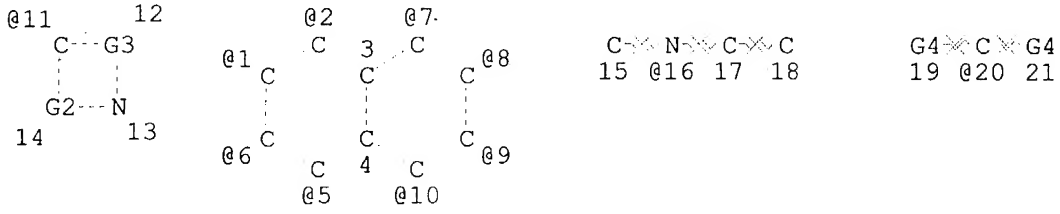


REP G2=(1-4) C

REP G3=(0-4) C
VPA 11-7/8/9/10 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
L9 STR



VAR G1=16/20/22/SH/X
REP G2=(1-4) C
REP G3=(0-4) C
VAR G4=C/N
VPA 11-7/8/9/10 U
VPA 24-2/1/6/5 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE
L10 5118 SEA FILE=REGISTRY SSS FUL L8 NOT L9

100.0% PROCESSED 364853 ITERATIONS 5118 ANSWERS
SEARCH TIME: 00.01.17

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=> fil medline,caplus,biosis,embase

COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.60       0.75

FILE 'MEDLINE' ENTERED AT 09:53:08 ON 04 MAR 1999

FILE 'CAPLUS' ENTERED AT 09:53:08 ON 04 MAR 1999
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 1999 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 09:53:08 ON 04 MAR 1999
COPYRIGHT (C) 1999 BIOSIS(R)

FILE 'EMBASE' ENTERED AT 09:53:08 ON 04 MAR 1999
COPYRIGHT (C) 1999 Elsevier Science B.V.  All rights reserved.

=> s l7 or l10 or l3

L11           8 FILE MEDLINE
L12        1452 FILE CAPLUS
L13          17 FILE BIOSIS
L14           1 FILE EMBASE

TOTAL FOR ALL FILES
L15        1478 L7 OR L10 OR L3

=> dup rem l15

PROCESSING IS APPROXIMATELY  37% COMPLETE FOR L15
PROCESSING IS APPROXIMATELY  73% COMPLETE FOR L15
PROCESSING IS APPROXIMATELY  99% COMPLETE FOR L15
PROCESSING COMPLETED FOR L15
L16         1456 DUP REM L15 (22 DUPLICATES REMOVED)

=> d scan

'SCAN' IS NOT VALID HERE
DISPLAY SCAN is not allowed with an L# containing results from
multiple files or from answer sets created by DUPLICATE, FOCUS,
FSEARCH, FSORT or SORT.

=> d cbib abs hitstr


L16  ANSWER 1 OF 1456  CAPLUS  COPYRIGHT 1999 ACS
1999:77565  Document No. 130:125079  Preparation and formulation of
     oxadiazolylnaphthyridinone derivatives as inverse agonists of
     benzodiazepine receptors.  Ohno, Kazunori; Odai, Osamu; Masumoto, Kaoru;
     Furukawa, Kiyoshi; Oka, Makoto (Dainippon Pharmaceutical Co., Ltd.,
     Japan).  PCT Int. Appl. WO 9903857 A1 19990128, 71 pp.  DESIGNATED
STATES:
     W:  AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK,
     EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC,
     LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU,
     SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM,
     AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM,
     CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT,
     SE, SN, TD, TG.  (Japanese).  CODEN: PIXXD2.  APPLICATION: WO 98-JP3134
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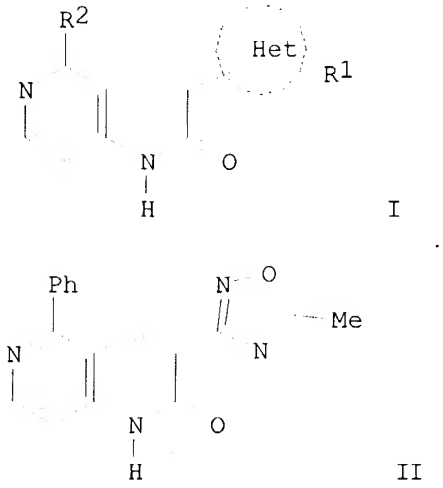
19980714. PRIORITY: JP 97-207179 19970715.

GI



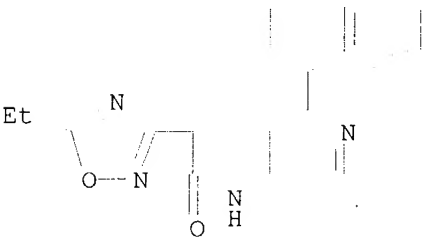
I

II

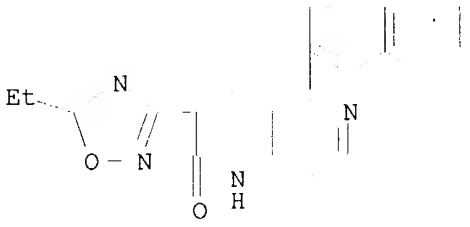
AB The title compds. I [Het represents oxadiazolyl; R1 represents H, lower alkyl, lower cycloalkyl, lower alkenyl, lower alkoxy, optionally substituted aryl, optionally substituted heteroaryl, etc.; and R2 represents H, lower alkyl, lower cycloalkyl, optionally substituted aryl, etc.] are prepd. Because of having high affinities selectively for benzodiazepine receptors, these compds. are useful as benzodiazepine receptor agonists, in particular, as inverse agonists of said receptors; the title compds. are useful, for example, as brain activators and as remedies for memory disorders assocg. senile dementia, Alzheimer's disease, etc. In an in vitro test for affinity for the benzodiazepine receptors, the title compd. II showed IC50 of 1.65 nM.

IT **219846-45-4P 219846-46-5P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of oxadiazolylnaphthyridinone derivs. as inverse agonists of benzodiazepine receptors)

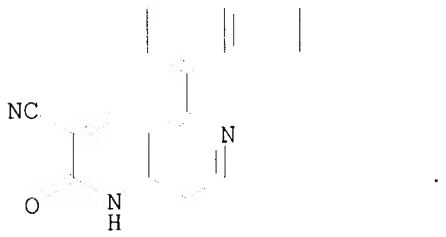
RN 219846-45-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



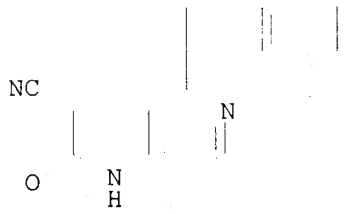
RN 219846-46-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



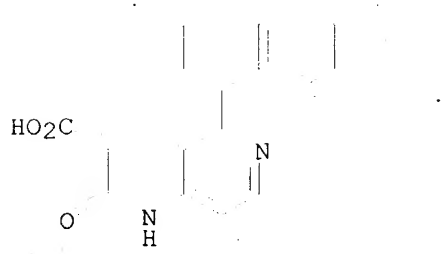
IT **219849-71-5P 219849-72-6P 219850-12-1P**
219850-13-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of oxadiazolylnaphthyridinone derivs. as inverse agonists of benzodiazepine receptors)
RN 219849-71-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



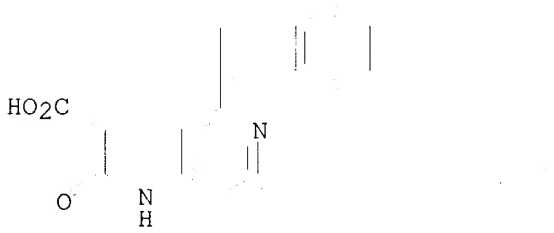
RN 219849-72-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 219850-12-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

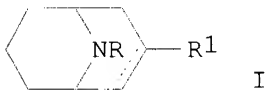


RN 219850-13-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



=> d cbib abs hitstr 10

L16 ANSWER 10 OF 1456 CAPLUS COPYRIGHT 1999 ACS
1998:795014 Document No. 130:38305 9-Azabicyclo[3.3.1]non-2-ene and -nonane derivatives as cholinergic ligands at nicotinic ACh receptors. Peters, Dan; Olsen, Gunnar M.; Nielsen, Simon Feldbaek; Nielsen, Elsebet Ostergaard (Neurosearch A/s, Den.). PCT Int. Appl. WO 9854182 A1 19981203, 37 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 98-DK224 19980529. PRIORITY: DK 97-628 19970530.
GI

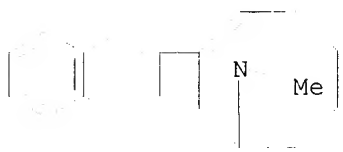


I

AB Title compds. I (R = H, alkyl, alkenyl, aryl, aralkyl, etc.; R1 = acyl, aryl, heteroaryl, etc.) were prepd. by several methods. Thus, 3-hydroxy-9-methyl-3-(3-pyridyl)-9-azabicyclo[3.3.1]nonane (II) was prepd. in 22% yield from 3-bromopyridine and 9-methyl-9-azabicyclo[3.3.1]nonane, and II was converted to I (R = Me, R1 = 3-pyridyl), isolated in 36% yield as the fumaric acid salt. The products were examd. for affinity to nicotinic ACh receptors in tests of 3H-cytisine, 3H-epibatidin, and 3H-.alpha.-bungarotoxin binding inhibition.
IT **216581-15-6P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(9-azabicyclo[3.3.1]non-2-ene and -nonane derivs. as cholinergic ligands at nicotinic ACh receptors)
RN 216581-15-6 CAPLUS
CN 9-Azabicyclo[3.3.1]non-2-ene, 9-methyl-3-(2-naphthalenyl)-, ethanedioate (9CI) (CA INDEX NAME)

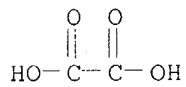
CM 1

CRN 216581-14-5
CMF C19 H21 N



CM 2

CRN 144-62-7
CMF C2 H2 O4

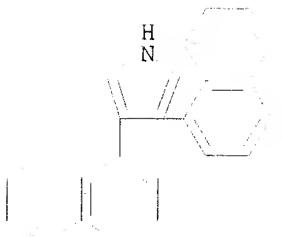


=> d cbib abs hitstr 100

L16 ANSWER 100 OF 1456 CAPLUS COPYRIGHT 1999 ACS
1998:259735 Document No. 129:41007 Synthesis of 3,4-diarylpyrroles and conversion into dodecaarylporphyrins; a new approach to porphyrins with altered redox potentials. Ono, Noboru; Miyagawa, Hirokazu; Ueta, Takahiro; Ogawa, Takuji; Tani, Hiroyuki (Faculty of Science, Department of Chemistry, Ehime University, Matsuyama, 790, Japan). J. Chem. Soc., Perkin Trans. 1 (10), 1595-1602 (English) 1998. CODEN: JCPRB4. ISSN: 0300-922X. Publisher: Royal Society of Chemistry.

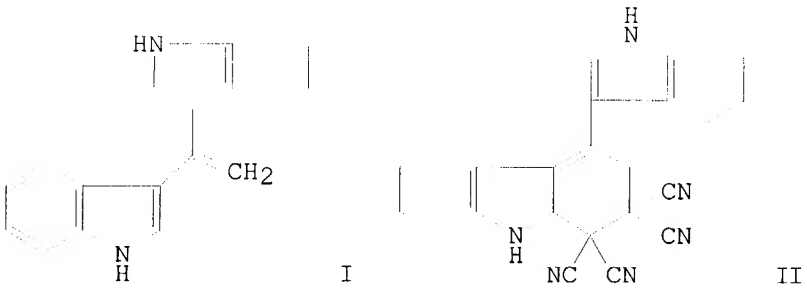
AB 3,4-Diarylpyrroles have been directly prepd. in 20-50% yield by the reaction of .beta.-nitrostyrenes with aq. TiCl3 in 1,4-dioxane. 3,4-Diarylpyrroles were also prepd. via Barton-Zard pyrrole synthesis using the reaction of .alpha.-nitrostilbenes with Et isocyanoacetate followed by de-ethoxycarbonylation. 3,4-Diarylpyrroles have been converted into dodecaarylporphyrins by reaction with arom. aldehydes. Various aryl groups are readily introduced at the periphery of porphyrins by this method. Ph substitution at any of the positions of pyrroles decreases Eox1/2, while E1/2 red is almost unchanged. On the other hand, substitution of the 2-thienyl group affects both the HOMO and LUMO energies, and the UV-vis spectra of dodeca-2-thienylporphyrins are extremely red-shifted.

IT **112594-63-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(synthesis of 3,4-diarylpyrroles and conversion into dodecaarylporphyrins as an approach to porphyrins with altered redox potentials)
RN 112594-63-5 CAPLUS
CN 1H-Pyrrole, 3,4-di-1-naphthalenyl- (9CI) (CA INDEX NAME)



=> d cbib abs hitstr 1000

L16 ANSWER 1000 OF 1456 CAPLUS COPYRIGHT 1999 ACS
1987:439551 Document No. 107:39551 [4 + 2]-Cycloaddition on 1,1-bis(3-indolyl)ethene like 3-vinylindole equivalents with conjugate 6 .pi.-system. Pfeuffer, Ludwig; Pindur, Ulf (Fachbereich Pharm., Johannes-Gutenberg-Univ., Mainz, D-6500, Fed. Rep. Ger.). Chimia, 40(4), 124-6 (German) 1986. CODEN: CHIMAD. ISSN: 0009-4293.
GI

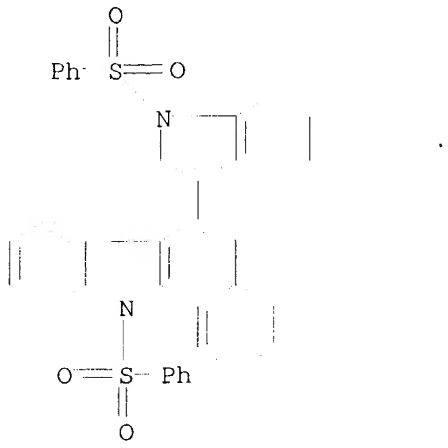


AB 1,1-Bis(3-indolyl)ethenes, e.g., I, react as 4.pi. electron systems with dienophiles (acrylic acid Me ester, tetracyanoethylene, benzyne, maleic anhydride, and 4-phenyl-1,2,4-triazoline 3,5-dione) to give cycloadducts of Diels-Alder type e.g., II. The results demonstrate, that [4 + 2]cycloaddn. with vinylindole equiv. represents a strategy be realized for deriving selectively functionalized carbazole derivaties.

IT **108925-96-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

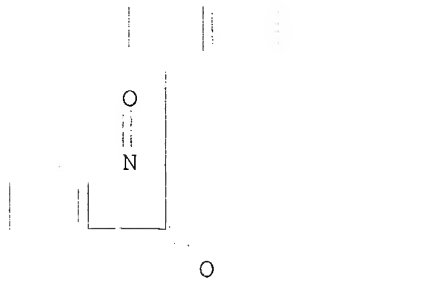
RN 108925-96-8 CAPLUS

CN 11H-Benzo[a]carbazole, 11-(phenylsulfonyl)-6-[1-(phenylsulfonyl)-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



=> d cbib abs hitstr 1400

L16 ANSWER 1400 OF 1456 CAPLUS COPYRIGHT 1999 ACS
1970:21557 Document No. 72:21557 Isatogens. VI. Synthesis of isatogens via
tolan (diphenylacetylene) intermediates. Bond, C. C.; Hooper, M. (Sch. Pharm., Polytech., Sunderland, Engl.). J. Chem. Soc. C (18), 2453-60 (English) 1969. CODEN: JSOOAX.
GI For diagram(s), see printed CA Issue.
AB A no. of substituted 2-nitrotolans and isatogens (I) were prepd. in high yield from copper(I) 2-nitrophenylacetylide and substituted aromatic iod ocompds. The reaction was affected by both electronic and steric factors and its limitations are discussed. 2-Carbamoyltolans cyclize to aminoindenones. A no. of novel compds. were isolated from these reactions
and their significance, with regard to the mechanism of the reaction between I and substituted acetylenes, is discussed. The influence of different solvents on the course of the latter reaction is reported.
IT **25410-86-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 25410-86-0 CAPLUS
CN 3H-Indol-3-one, 2-(1-naphthyl)-, 1-oxide (8CI) (CA INDEX NAME)



=> d cbib abs hitstr 1450

L16 ANSWER 1450 OF 1456 CAPLUS COPYRIGHT 1999 ACS
1967:402942 Document No. 67:2942 Preparation of alkylated basic bisnaphthalimides. Schuetz, Siegismund; Kurz, Juergen; Otten, Hinrich; Bock, Marianne (Farbenfabriken Bayer A.-G.). Fr. FR 1449951 19660819, 5 pp. (French). CODEN: FRXXAK. PRIORITY: DD 19640831.

GI For diagram(s), see printed CA Issue.

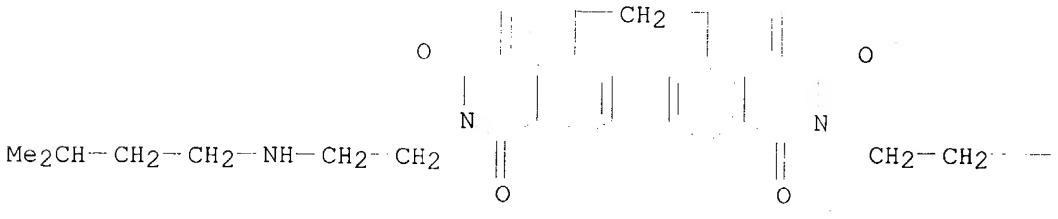
AB The title compds. (I) were prepd. by boiling the dianhydride of a dinaphthyltetracarboxylic acid with an appropriate amine in PhMe until the calcd. amt. of H2O was sepd. I prepd. in this way were (R, X, and m.p. given): Et2NCH2CH2, CO, 175-8.degree.; .beta.-dimethyl-.gamma.-piperidinopropyl, CO, 163-5.degree.; .beta.-dimethyl-.gamma.-dimethylaminopropyl, CO, 174-6.degree., .gamma.-(4-methylpiperazino)propyl, CO, 141.degree.; Me2NCH2CH2, CO, 115-17.degree.; .beta.-(pyrrolidino)ethyl, CO, 153-4.degree.; p-(piperidinomethyl)phenyl, CO, 152-3.degree.; Et2NCH2CH2, p-COC6H4CO, 260.degree. (di-HCl salt); Et2NCH2CH2O, p-COC6H4CO, 142-4.degree.; Me2N(CH2)3, p-COC6H4CO, 283-5.degree. (di-HCl salt); (Et2NCH2)2CH, p-COC6H4CO, 180.degree. (tetra-HCl salt); .beta.-(2-methylpentylamino)ethyl, CO, 133.degree.; (hexylamino)ethyl, CO, 260.degree. (di-HCl salt); .beta.-(3-methylbutylamino) hexyl, CO, 117.degree.; .beta.-(3-methylbutylamino)butyl, CO, 260.degree. (di-HCl salt); .beta.-(3-methylbutylamino)ethyl, CH2, 217.degree. (di-HCl salt); .beta.-(3-methylbutylamino)ethyl, -, 173.degree.; Et2NCH2CH2O, CO, 177-80.degree.; .beta.-(6-methoxy-1,2,3,4-tetrahydroisoquinolyl)ethyl, CO, 190-4.degree.; .beta.-(N-azabicyclo[2.2.3]nonyl)ethyl, CO, 173-5.degree.. Similarly prepd. from the dianhydride of 3,4'-oxydinaphthalic acid were the following II (R and m.p. given): (Et2NCH2)2CH, 189-91.degree.; Et2NCH2CH2, 142-4.degree.; Me2N(CH2)3, 128-30.degree.; Et2NCH2CH2O, 146-8.degree.; (6-methoxyisoquinol-2-yl)ethyl, 161.degree.; .beta.-(N-azabicyclo[2.2.3]nonyl)ethyl, 173.degree.. The title compds. are effective against tuberculosis, amebae, and nematodes, and also have laxative action.

IT **15070-59-4P 15087-46-4P 15207-05-3P 15208-86-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 15070-59-4 CAPLUS

CN Naphthalimide, 4,4'-methylenebis[N-[2-(isopentylamino)ethyl]-, dihydrochloride (8CI) (CA INDEX NAME)

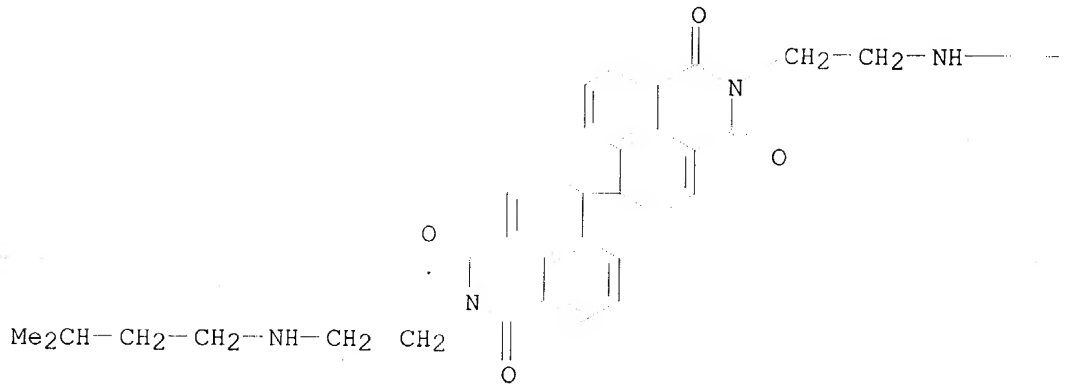
PAGE 1-A



• 2 HCl

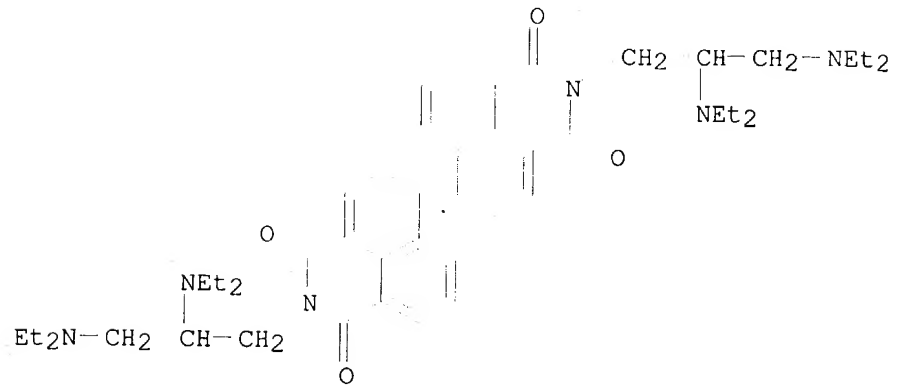
—NH—CH_2—CH_2—$CHMe_2$

RN 15087-46-4 CAPLUS
CN [1,1'-Binaphthalene]-4,4',5,5'-tetracarboxylic 4,5:4',5'-diimide, N,N'-bis[2-(isopentylamino)ethyl]- (8CI) (CA INDEX NAME)

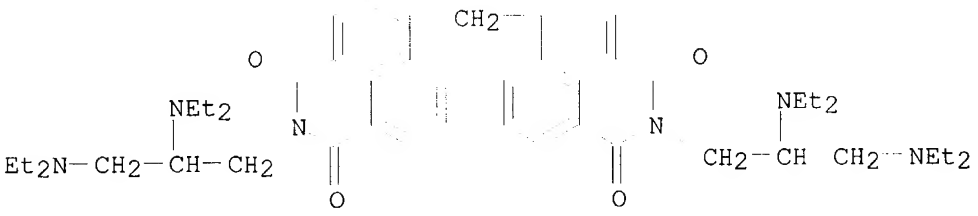


CH_2—CH_2—$CHMe_2$

RN 15207-05-3 CAPLUS
CN [1,1'-Binaphthalene]-4,4',5,5'-tetracarboxylic 4,5:4',5'-diimide, N,N'-bis[2,3-bis(diethylamino)propyl]- (8CI) (CA INDEX NAME)

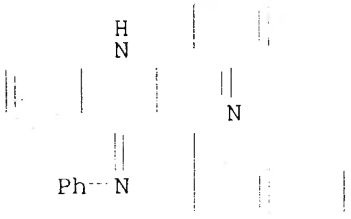


RN 15208-86-3 CAPLUS
CN Naphthalimide, 4,4'-methylenebis[N-[2,3-bis(diethylamino)propyl]- (8CI) (CA INDEX NAME)



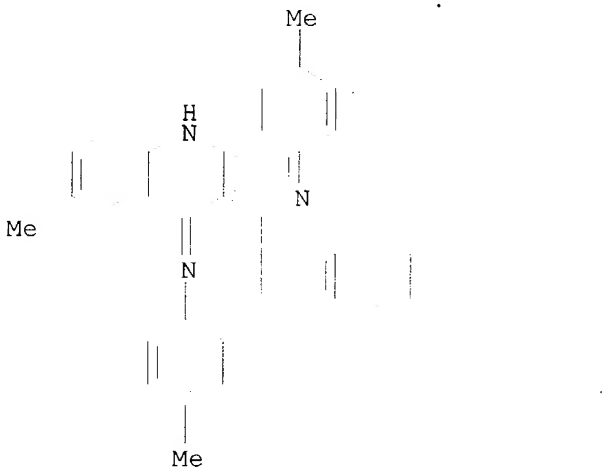
=> d cbib abs hitstr 1456

L16 ANSWER 1456 OF 1456 CAPLUS COPYRIGHT 1999 ACS
1968:486850 Document No. 69:86850 Structure and properties of triazaphenalene, a heterocyclic system of condensed rings. Moszew, Jan; Adamczyk, Bogumil; Bala, Marian; Zankowska-Jasinska, Wanda (Univ. Jagiellon, Cracow, Poland). Zesz. Nauk. Uniw. Jagiellon., Pr. Chem., No. 11, 17-26 (Polish) 1966. CODEN: ZUJCAQ.
GI For diagram(s), see printed CA Issue.
AB Schiff bases, anils of 1,2-benzo-3,9-diaza-4-aryl-10-anthrone, undergo dehydrocyclization to give the shown polycyclic derivs. of 1,4,7-triazaphenalene, orange-red compds. exhibiting exceptionally strong fluorescence in solns. These products are resistant towards both HCl and alc. soln. of KOH even at 200-40.degree. and under pressure. The given structures are supported by anal. data, chem. behavior, and uv and ir spectra. The anil used in the prepn. of IIIc is a new compd., m. 289-90.degree.. IIa was prepd. by dropping 10% HNO3 into a suspension of 1 g. anil in 40 ml. boiling EtOH until a clear soln. was obtained. The soln. was refluxed for 4 hrs. to give 0.7 g. HNO3 salt, decompd. 170-5.degree.. The salt was heated with aq. Na2CO3 to give 0.3 g. IIa. The compds. show marked anticancerogenic activity.
IT **751-59-7P 1064-21-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and ring closure of)
RN 751-59-7 CAPLUS
CN Dibenzo[b,h][1,6]naphthyridine, 7,12-dihydro-6-(2-naphthyl)-7-(phenylimino)- (7CI, 8CI) (CA INDEX NAME)



RN 1064-21-7 CAPLUS
CN Dibenzo[b,h][1,6]naphthyridine, 7,12-dihydro-2,9-dimethyl-6-(2-naphthyl)-7-

(p-tolylimino)- (7CI, 8CI) (CA INDEX NAME)



=> dis his

(FILE 'HOME' ENTERED AT 09:51:48 ON 04 MAR 1999)

FILE 'REGISTRY' ENTERED AT 09:51:56 ON 04 MAR 1999

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                ACT BERCH522/A
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L1              STR
L2              STR
L3          422 SEA FILE=REGISTRY SSS FUL L1 NOT L2
               ---------
                ACT BERCH522A/A
               ---------
L4              STR
L5              STR
L6              STR
L7          215 SEA FILE=REGISTRY SSS FUL (L5 OR L6) NOT L4
               ---------
                ACT BERCH522C/A
               ---------
L8              STR
L9              STR
L10        5118 SEA FILE=REGISTRY SSS FUL L8 NOT L9
               ---------
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FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE' ENTERED AT 09:53:08 ON 04 MAR 1999

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L11            8 FILE MEDLINE
L12         1452 FILE CAPLUS
L13           17 FILE BIOSIS
L14            1 FILE EMBASE
     TOTAL FOR ALL FILES
L15         1478 S L7 OR L10 OR L3
L16         1456 DUP REM L15 (22 DUPLICATES REMOVED)
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=> 'log y

'LOG IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	381.74	382.49

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.75	-3.75

STN INTERNATIONAL LOGOFF AT 10:05:18 ON 04 MAR 1999